

### **ABSTRACT**

The present invention provides a disposable trumpet valve tube cassette assembly, as well as, a surgical irrigation instrument that includes a probe assembly, a pump, a removable pump cartridge, and a socket. The probe assembly provides passage of fluids for irrigating the body interior and for evacuating matter from the body interior. The pump provides for pumping irrigation fluid through the probe assembly into the body interior. A pump cartridge defines a pumping chamber. Electronic control circuitry includes an electronics controller and a trumpet valve switch interface. The electronics controller includes a pulse generator that generates pulses, the duty cycle of the pulses controlling the speed of the motor. The trumpet valve switch interface is in electronic connection to a switch, the interface providing a signal to the controller.